

Radiation of antenna ...

P/019/62/011/004/001/010  
D271/D308

cients are used in the polynomial representation of field distribution in the aperture. The danger of solutions leading to ultra-gain is stressed. There are 6 figures.

ASSOCIATION: Zakład Teorii Łączności IPPT PAN (Department of Telecommunication Theory, IPPT PAS)

SUBMITTED: May 21, 1962

Card 3/3

P/019/62/011/004/002/010  
D271/D308

AUTHOR: Szulkin, P.

TITLE: Amplitude stability criteria in systems with two degrees of freedom

PERIODICAL: Archiwum Elektrotechniki, v. 11, no. 4, 1962, 721-739

TEXT: Amplitude stability criteria of two simultaneous oscillations are derived from energy considerations and applied to nonlinear systems described by fourth- or fifth-order characteristics. Current superposition is used assuming quasi-linearity of the system. Impedances of two constituent oscillating circuits are regrouped in such a manner that at each frequency energy is concentrated in one circuit only. Dissipated power as a function of oscillation amplitudes (A, B) is represented by a surface in A, B, P space. When power supplied by a nonlinear source is represented by another surface in the same space, the intersection lines of both surfaces correspond to possible oscillation amplitudes in balanced state. The nonlinear element of the considered system with two degrees of

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freedom is described by a fourth-order polynomial  $v = f(i)$ , with coefficients  $\alpha, \beta, \gamma, \eta$  and an expression is derived for the power  $P$  which corresponds to the simultaneous existence of both oscillations:

$$P = P_1 + P_2 - \frac{3}{8} \gamma A^2 B^2 \quad (17)$$

where  $P_1$  and  $P_2$  are powers associated with one frequency in the absence of the other. Even when it is assumed to be valid for currents, the superposition principle cannot be applied to energy. The stability condition of the oscillation amplitude  $B$  is  $-R_2 > \alpha$ , where  $R_2$  is the resistive component of the linear circuit connected to the nonlinear element at the oscillation frequency  $B$ . Similarly, the stability criterion for  $A$  is  $-R_1 > \alpha$ . These conditions are valid when only one oscillation occurs at a time. For stable amplitudes of simultaneous oscillations the expressions are:

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$$A_s^2 = \frac{1}{3} (2B_m^2 - A_m^2) \quad (27)$$

$$B_s^2 = \frac{1}{3} (2A_m^2 - B_m^2) \quad (28)$$

where the indices m refer to singly occurring oscillations. The comparison of powers supplied by the nonlinear and dissipated element produces an equation of pairs (A, B) which are amplitudes in balanced states. If there is no energy exchange between the two oscillations, the only possible solution is that with stable amplitudes. When energy exchange occurs, two-frequency operation is possible but there is no question then of stationary conditions. Stability conditions are finally expressed in the form of inequalities involving the dependence of frequency on the amplitude of oscillations, values of stable amplitudes, loss resistance and

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and logarithmic decrements of the linear circuit at frequencies considered. The case of the fifth-order characteristic of the non-linear element is also analyzed. There are 3 figures.

ASSOCIATION: Zakład Teorii Łączności IPPT PAN (Department of Telecommunication Theory, IPPT, PAS)

SUBMITTED: July 23, 1962

Card 4/4

OSIOWSKI, Jerzy; SZULKIN, Pawel

Certain problems of dynamics of relays of optimizing control systems. Archiw automat 8 no.1:3-26 '63.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk,  
Zaklad Teorii Laczynosci, Warszawa.

P/052/62/000/002/001/002  
D271/0303

9,2580

AUTHOR: Szulkin, Paweł

TITLE: Some conclusions from the theory of synchronization by a continuous wave of constant frequency

SOURCE: Prace Instytutu Łączności, no. 2, 1962, 3-18

TEXT: The time constant of the synchronizing process, its dependence on the locking band width and the influence of the synchronizing signal on the locked oscillations are analyzed. The locking signal is assumed to be applied in series to the grid of the oscillator tube. The amplitude of oscillations is determined as the point of intersection of the non-linear characteristic of the tube  $V_a = f(V_g)$  and the line  $V_a = f(V_1 \cos \varphi)$  which represents the transfer function of a linear quadripole where  $V_1$  is the geometric difference of  $V_g$  and  $V_s$  and  $\varphi$  is the angle between  $V_1$  and  $V_g$ . The condition of locking is that  $V_1$ ,  $V_s$ ,  $V_g$  form a closed triangle; this is an extension of the Barkhausen criterion for a tube oscillator. In

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Some conclusions from the theory ...

the case of a single tuned circuit the width of locking band is  $\frac{\omega_o}{Q} \frac{V_s}{V_g}$ . A more general picture of synchronization is obtained by the use of modified Adler's method (PRL, v. 34, 1946, 351) assuming  $V_s \ll V_g$  and  $\varphi$  to be small and linearly varying with frequency. Introducing  $\psi$ , such that  $\psi = \frac{V_s}{V_g} \sin \varphi$ , an equation is derived

$$\frac{d\psi}{dt} = \Omega_s - \Omega_o \sin \psi. \quad (9)$$

where  $\Omega_s$  is the difference between synchronizing and free oscillation frequency and  $\Omega_o$  - half-width of the synchronizing band. In the case of locking,  $\frac{d\psi}{dt} = 0$  and

$$\sin \psi = \frac{\Omega_s}{\Omega_o} \quad (10)$$

Equation (10) is discussed for  $\Omega_s < \Omega_o$  and  $\Omega_s > \Omega_o$ . In the  
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Some conclusions from the theory ...

first case, a time constant is introduced which is a measure of decay of the transitional state caused by the sudden application of the synchronizing signal; its dependence on  $\Omega_0$  and  $\Omega_s/\Omega_0$  is plotted. In the second case, where the synchronizing frequency is outside, but fairly close to, the synchronizing band, the oscillator is frequency modulated and its center frequency moves towards the synchronizing frequency. Another method of injecting the locking signal is considered in which synchronizing current flows into the oscillator circuit represented as a parallel connection of L, R, C and a negative resistance. Equation (9) is also proved to be valid for this case. Amplitude modulation of locked oscillations depends on the amplitude and frequency of the locking signal, and expressions are derived for this dependence, as well as for the frequency dependence of the oscillator transfer function. The locking band width depends on the amplitude of the signal as do the oscillator time constant and its reaction to changes in the synchronizing frequency. An equation is given which characterizes the oscillator frequency as a function of amplitude variations. There are 10 figures.

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Some conclusions from the theory ...

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D271/D308

SUBMITTED: June 24, 1961

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S/194/62/000/012/101/101  
D271/D308

AUTHOR: Szulkin, Paweł

TITLE: Variational methods for calculating discontinuities  
in coaxial cables

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 12, 1982, 26, abstract 12-8-51 r (Rozpr. elektro-  
techn., v. 7, no. 3, 1961, 365-379 (Pol.; summaries  
in Rus. and Eng.))

TEXT: A variational method is used in the investigation of discontinuous (plane) inhomogeneities in coaxial cables. An integral equation for the admittance is derived by solving Maxwell's equations. It is shown that, in the case of TEM waves, it is possible to represent accurately a lumped discontinuity by a lumped capacitance. As an example, the discontinuities are considered in a coaxial cable which are due to an abrupt change of the diameter of the inner conductor and of the shield. 4 references. [Abstracter's note: Complete translation.]

Card 1/1

Szulc, A., Jankowski, Fr.

Racjonalizator w górnictwie (The rationalizer in the mining industry),  
by A. Szulc, Fr. Jankowski. Reported in: New Books, (Nowe Książki), No. 4,  
March 1, 1956.

SZOLYOVSKIY, A.

B. T. R.  
Vol. 3 No. 4  
Apr. 1954  
Metals-Extraction and Refining

5212\* Practical Aspects of the Thermodynamics of Magnesium Oxide Reduction. (Hungarian.) Andor Szulyovszky. *Aluminium (Budapest)*, v. 5, no. 9, Sept. 1953, p. 185-188.  
Thermodynamic data of Mg-reduction as basis for work necessary in starting a Hungarian Mg industry. Tables, graphs. 14 ref.

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the problems of the ... ..

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of the air vapor above the melt. Conditions of ...  
... .. of the reduction  
... .. to the entire process ...  
silicates forming in the various phases meets with difficulties.  
... ..  
vapor pressure estimated by direct measurement seems to

SZULYÓVSZKY, ANDOR

✓ 699\* New Data on Ore Preparation in Silicon-Thermal Magnesium Metallurgy. Újabb adatok a szilikotermikus magnéziumkohászat előkészítéséhez. (Hungarian.) Andor Szulyovszky and Károly Czákó. *Kohászati lapok*, v. 10, no. 8, Sept. 1955, p. 413-419.

Crushing and calcining of dolomite; equipment; briquetting. Tables, graphs. 12 ref.

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SZULYOVSKY, Andor.

21

Ore dressing for the silicon-thermal magnesium reduction. Andor Szulyovszky and Karoly A. Czako. *Fémművelés* 1936, 319-46. For calcining, the grain sizes may vary from 10 to 70 mm. without affecting the calcining time. The optimum temp. for reducing the  $\text{CO}_2$  content of the material to the desired 0.3% is reached in stages from 650 to 1200°. For briquet formation, the dolomite must be ground to a grain size of 0.06-1.1 mm. and pressed with a specific pressure of 800-1000 kg./sq. cm., after which the apparent d. of the briquets is 1.7-1.8 g./cc. The pressure needed for wet briquetting is only  $1/5-1/6$  of that required for dry pressing. At a drying temp. of 150° the oxidation of the 76% FeSi is negligible in both the wet and the dry briquets, while somewhat larger in the wet briquets. The drying temp. should not exceed 760-800°.

Felicitas D. Goodman

Distr: 4E2c



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An experimental rotary furnace for ~~mercurium~~ <sup>mercury</sup> reduction.  
Andor Szulyovszky and Károly A. Csáko. *Pérmipari  
Kutató Intézet Közleményei* 1956, 34/51. An exptl. pilot-  
plant process was carried out in a rotary furnace heated  
with C electrodes. The briquets were preheated to 600° and  
placed in the reduction section, which had a temp. of 1100-  
1200°. A 15-25-min. evacuation produced the necessary  
0.5-2.5 mm. Hg. The Mg gases were conducted into a con-  
denser at a temp. of 450-500°; the reduction of 1 load took  
3.5-4 hrs. The purity of the metal produced was 98.6-  
99.5%. After several hrs. of operation, the C electrode was  
graphitized, and its sp. resistance had decreased from 24 to 17  
ohm/sq. mm.-m. Felicitas D. Goodman

Distri: 4E20

SZULYOVSEKY, A.

Techniques in Metallurgy. A. Szulyovsky.  
 Moscow, 1960, 11, (10) 430-444. The author refers  
 briefly to the effect of the metallurgical processes  
 after the construction and the construction of the  
 resistance, induction and vacuum processes under vacuum.  
 describes the following metallurgical processes under vacuum:  
 (1) heating, (2) degassing, (3) sintering, (4) melting, (5)  
 distillation and sublimation, (6) reduction of metal oxides  
 and (7) metal coating.

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SZULYO/SZHY, A.

Possibilities of the development of the thermometallurgy of magnesium. p. 66.  
(KOHASZATI LAPOK. Vol. 12, no. 1/2, Jan/Feb. 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (MEAL) LC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

S/081/62/000/003/044/090  
B156/B101

AUTHORS: Szulyovszky, Andor, Legát, Tibor

TITLE: High-purity selenium produced by vacuum distillation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 356,  
abstract 3K54 (Fémipari kutató int. közl., v. 4, 1960,  
363-370, 404, 416, 417, 427)

TEXT: The ideal conditions for the process have been found (400 °C,  
0.5 mm Hg), and industrial equipment has been produced. Abstracter's note:  
Complete translation.

Card 1/1

SAULYOVSEKY, Andor, tudományos kutató; BAUMANN, Sándor, tervező

Silicothermal magnesium refining furnaces and their operation.  
Koh lap 97 no. 2:88-93 F '64.

1. Research Institute of the Metal Industry, Budapest (for  
Saulyovszky). 2. Aluminum Industry Designing Enterprise,  
Budapest (for Baumann).

ORG: none

TITLE: Development of an oil diffusion pump with a delivery rate of 125 l/sec  
[Awarded 1st prize at the 1966 "Design and Structural Construction" competition, sponsored by Finommechanika]

SOURCE: Finommechanika, no. 1, 1967, 7-10

TOPIC TAGS: diffusion pump, pump, oil backflow

ABSTRACT: The paper described the first of a series of diffusion pumps developed jointly by the Central Research Institute for Physics and the United Incandescent Company and assembled by Elekthermax. The design and dimensional data are given and measurement values concerning ultimate pressure and suction speed of the prototype are presented. A method is also suggested for computing the quantity of oil back-flow. Orig. art. has: 7 figures. [Authors' abstract]

[KS]

SUB CODE: 13/SUBM DATE: none/SOV REF: 001/OTH REF: 008/

Card 1/1

SZUMAKOWICZ, J.

Properties of refractories from fire clay burned at a low temperature.

P. 29 (BUDOWNICTWO PRZEMYSLOWE ) Poland, Vol. 6, No. 1, 1956

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11, November 1957

SZUMAN, JERZY.

Szuman, Jerzy. - Badania nad przejawami rui i ciąży u krolic. Studies on the symptoms of heat and pregnancy in rabbits. Krakow, Nakl. Polskiej Akademii Umiejetnosci, 1952. 59 p. (Prace rolniczo-lesne, nr. 65) [English and Russian summaries. illus., bibl., tables]

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

SZUMAN, Jerzy  
SURNAME, Given Names

Country: Poland

Academic Degrees: Prof. Dr.

Affiliation: /not given/

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 7, July 1961,  
pp 435-437.

Data: "Possibilities of Arranging the Copulation Season of the Polar Foxes  
without Trial Mating of the Pairs."



SZUMAN, Jerzy; GORSKI, Lech; LUBAWA, Urszula

Influence of the season upon the growth rate of goose feathers.  
Roczniki Wyż Szkoła Rol Poznan no.12:79-95 '62.

1. Zakład Hodowli Drobiu i Zwierząt Futerkowych, Wyższa Szkoła  
Rolnicza, i Branżowe Laboratorium Badawcze Przemysłu Jajczarsko-  
Brobiarskiego, Poznan.

SZUMAN, Jerzy; SOKOLOWSKI, Wacław

Bibliography of works of the scientific staff of the Department of Zootechny of the School of Agriculture in Poznań for the years 1958-1961. Roczniki Wyz Szkola Rol Poznań no.12:257-275 '62.

1. Wyższa Szkoła Rolnicza, Poznań.

DORUCHOWSKI, Wojciech; SZUMAN, Jerzy

Development of the plumery in growing ducks and its dependence on their growing rate and way of being fed. Roczники wyz szkola rol Poznan 17:3-19 '63.

1. Department of Specific Animal Breeding, College of Agriculture and Central Laboratory of the Egg and Poultry Industry.

SKUMAN, Jerzy; DORUCHOWSKI, Wojciech; LUBAWA, Urszula

Evaluation of mashers produced by the Polish fodder industry for feeding broilers. Roczniki wyz szkola rol Poznan 17:209-224 '63.

1. Department of Specific Animal Breeding, College of Agriculture, Poznan, and Central Laboratory of the Egg and Poultry Industry, Poznan.

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SZUMAN, W

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Szuman W. Central Electric and Heat Supply Systems.

"Zespolona gospodarka cieplno-elektryczna". Przegląd Elektro-techniczny. No. 7-8, 1951, pp. 215-228, 22 figs., 2 tabs.

Combined generation of heat and electric energy in power plants. Centralisation of output. Conditions for and advantages of combined generation of heat electric power. Operating conditions and design of urban heating plant. Heating system, selection of the active medium and its physical features. Pipe line systems and details of arrangement. Working principles of heat pumps.

SZUMAN, W.

Urządzenia pomocnicze elektrowni ciepłych (Auxiliary installations of thermal power plants), by W. Szuman. Reported in New Books, (Nowe Książki), No. 6, March 15, 1956.

STON-H, Wanda

Research work of the Torun Branch of the Polish Psychological Society. Przegi psychol no. 7:125-132 1964.

1. Torun Branch of the Polish Psychological Society, Torun.

KORANYI, Gyorgy, dr.; WUNSCH, Walter, Dr. ing.; OECHELHAUSER, Kurt;  
PUTNOKY, Janos; SOMHEGYI, Karoly; SZUMAN, Witold; VALY, Ferenc, dr.;  
DOBO, Laszlo; NAGY BIRO, Sandor; VIDA, Miklos; TOBAK, Lajos;  
MAKOLDI, Mihaly; NASZALYI, Laszlo; HUNEK, Emil

Technical and economic questions relating to gas utilization.  
Ipari energia 3 no.1/2:9-14 Ja-F '62.

1. Fovarosi Gazmuvek muszaki igazgatoja (for Valy).



SZUMAN, Witold, doc. mgr inż.

Power problems in industrial enterprises. Gosp paliw 11 no.1:  
8-11 Je '63.

1. Katedra Elektrowni i Elektroenergetyki, Politechnia,  
Warszawa.

SZUMAN, Witold, doc.

The Turbogenerator Conference in Breslau, October 19-22, 1964.  
Przegl elektrotechn 41 no.4:151-152 Ap '65.

1. Scientific Secretary of the Committee for Electrical  
Engineering of the Polish Academy of Sciences, Warsaw.

SZUMANKOWICZ, Jerzy

An attempt to determine the most suitable porosity of grog obtained by baking fireproof clays. Ceramika 32 no.4:39-46 '61.

1. Katedra Technologii Materialow Ogniotrwalych Akademii Gorniczo-Hutniczej, Krakow.

SZUMANSKA, Witoslawa

The three International Speleological Congress in Vienna, Obertraun, Salzburg (Austria). Przegl geol 10 no. 4/5:240-241. Ap-May '62

1. Politechnika, Warszawa.

SZUMANSKI, E.; WRZESNIEWSKI, Z.

Semitechnical researches. p. 24.

BUDOWNICTWO WIEJSKIE. (Ministerstwo Rolnictwa i Ministerstwo Panstwowych  
Gospodarstw Polnych.) Warszawa, Poland. Vol. 2, no. 3, March 1959

Monthly list of East European Accessions (EEAI) LC Vol. 8, no. 8, Aug. 1959

Uncl.

POLAND/Chemical Technology. Chemical Products and Their  
Application, Part 4. - Dyeing and Chemical  
Treatment of Textile Materials.

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Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 77789.

Author : J. Szumowski

Inst : "Inst. włókiennictwa" .....

Title : Determination of Fire Resistivity of Textile Products.

Orig Pub: Przem. włókienniczy, 1957, 11, No 11, Biul. inst.  
włókiennictwa, 9, No 11, 22.

Abstract: It is recommended to use two methods of testing:  
1/ a strip of fabric 25 x 5 cm large is suspended ver-  
tically in a cupboard in order to protect it from  
draft and kindled 12 sec. at a distance of 2 cm  
above the opening of a Bunsen burner by a luminous  
flame 2 cm high. The fire resistivity is determined

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SZUMEN, W

(PRZEGLAD ELEKTROTECHNICZNY, Vol. 27, No. 7/8, Warszawa, Poland, Aug. 1951  
"Power and heat supply in Czechoslovakia." p. 252.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

SZUMIEC, Jan, mgr inż.

Influence of above water vegetation and the method of mowing it  
on the bottom fauna of fishponds. Acta hydrobiol 5 no.4:315-  
335 '65.

1. Zespół Gospodarstw Doswiadczalnych Ochaby, Zakład Biologii  
Wod. Polska Akademia Nauk, Ochaby pow. Cieszyn.



SZUMIEC, Maria

Preliminary measurements of the radiation intensity in lakes. Acta hydrobiol 3 no.2/3:133-142 '61.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Gospodarstwo Doswiadczone Ochaby, poczta Skoczow.

SZUMIEC, Maria

Time-space temperature distribution in the lowest air layers over water and soil. Przegl gabfiz 7 no.3:157-167 '62.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Ochaby.

SZUMIGO, Maria, mgr.

The hydrodynamic characteristics of carp rearing ponds. Acta  
hydrobiol. et ichth. 21-22: 331.

1. Zespół Gospodarczo Wodno-rolniczych Zakład Biologii  
Wod, Polska Akademia Nauk, Zakład. praca nieopublikowana.

SZUMIEJKO, Henryk, dr., inż.

Direct current amplifier. Przegl elektrotechn 37 no.12:514 '61.

(Amplifiers)

SZUMIEJKO, Henryk, dr., inż.

Universal transistor amplifier. Przel elektrotechn 37 no.12:  
514 '61.

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P/021/62/000/010/001/001  
D289/D308

9.2560

AUTHORS:

Szumiejko, Henryk, Doctor of Engineering,  
Michałowski, Wiesław, Master of Engineering

TITLE:

Amplifier stage using electronic tube and a  
transistor for control amplifiers

PERIODICAL:

Przegląd elektrotechniczny, no. 10, 1962,  
417 - 418

TEXT:

The circuit described is intended for applica-  
tions where one high voltage supply is available. An electronic  
tube operating in grounded grid configuration contains a transis-  
tor as its cathode resistance. Suitable choice of tube and trans-  
istor depends on the amplifier output parameters. The choice of  
transistor is limited by the conditions  $I_{kmax} \leq I_{adm}$  and  
 $V_k \leq -V_{KEadm}$ , where  $I_k$ ,  $V_k$  -- cathode current and voltage respect-  
ively,  $I_{Eadm}$  -- admissible emitter current;  $V_{KEadm}$  -- admissible

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Amplifier stage using ...

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collector-to-emitter voltage. If the above voltage relation is not satisfied a resistance in emitter or collector circuit may be used. An example is given using a tube type EF80 and transistor type TG5 where, with anode load of  $100\text{ k}\Omega$  and  $V_a = 300\text{ V}$ , maximum cathode current is  $3\text{ mA} \leq I_{KE}$ . It is concluded that any low power surface barrier transistor of Polish manufacture may be used with the EF80 tube and transistors TG50-52 are suitable for EL series tubes, e.g. EL83. The choice of operating point for the tube is determined by the choice of anode resistance or load and linearity, that of the transistor by base-emitter bias for a given emitter current. The choice of transistor maximum voltage is determined by the emitter and base resistances and their relation to the impedance of input signal source. D.C. and A.C. (frequency and phase) characteristics are tabulated. There are 2 figures and 4 tables.

ASSOCIATION:

Instytut Elektrotechniki, Zakład Zautomatyzowanych Napędów (Institute of Electrical Technology, Department of Automated Drives)

Card 2/2

SZUMIEJKO, Henryk, dr. inż.

An electronic multiplying system. Przegl elektrotechn  
38 no.5:220. '62.

1. Zakład Zautomatyzowanych Napędów, Instytut Elektrotechniki,  
Warszawa.



SZUMIEJKO, Henryk, dr inż.

Electronic relay circuit for the change of operation amplifier parameters.  
Przegl elektrotech 38 no.11:487-488 '62.

1. Zaklad Zautomatyzowanych Napedow, Instytut Elektrotechniki, Warszawa.

SZUMIEJKO, Henryk

Elements of analog calculating machines applied in the modeling of  
electric rolling proceedings. Probleme automatiz 4:219-227 '63.

CHMIELEWSKA, I.; TOCZKO, K.; KANIUGA, Z.; SZUMIEL, I.

Utilization by the human organism of intravenously administered protein hydrolysates. IV. Urinary excretion of amino acids with blocked amino groups. Acta physiol pol 12 no.4:549-558 '61.

1. Z Katedry Biochemii Uniwersytetu Warszawskiego w Warszawie  
Kierownik: prof. dr I. Chmielewska.  
(PROTEIN HYDROLYSATES metab) (AMINO ACIDS urine)

SZUMIEL, Irena

The stereospecificity of enzymes. Postepy biochem. 8 no.1:29-52 '62.

(ENZYMES)

SZUMIEL, Irena

The heterogeneity of enzymes. Postepy biochem. 9 no.2:153-172  
'63.

(ENZYMES)

SZUMIEL, Irena

Conformation of steroids. Postepy biochem. 6 no.3:341-355 '60.  
(STERIODS chem)

SZUMIEL, Irena

The mechanism of enzyme action. Postepy biochem. 11 no.2:119-144  
'65.

SZUMIGAJ, Franciszek

History of the psychiatric hospital in Swiecie on Vistula.  
Neur. &c. polska 6 no.1:126-128 Jan-Feb 56.

1. Z Panstwowego Szpitala dla Nerwowo i Psychicznie Chorych  
w Swieciu n/Wisla. Dyrektor: dr. med. Fr. Szumigaj.  
(HOSPITALS, PSYCHIATRIC, history,  
in Poland. (Pol))



SZUMILEWICZ, Irena, dr.

A symposium of philosophers in Denver, Colorado. Problemy 18  
no.6:439-441 '62.

SZUMILAS, Stanislaw

Chemistry conquers foreign markets. Przegl techn 85 no.23:4  
7 Je '64

1. Ministry of Chemical Industry, Warsaw.

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
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<div style="display: flex; justify-content: space-between;"> <span>SA</span> <span>B 64</span> </div> <div style="text-align: center;"> <p>621.311.15: 621.370</p> <p>659. Problems and structure of a lead dispatching system. Szumowski, W. <i>Przegl. Elektrotech.</i>, 24 (Nos 4-5) 92-109 (1948) In Polish.—A general review based on British, American and Russian practice. A diagram of the planned remote control and telemetering system for Poland is included. A. SZ.</p> </div>																																																			
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